



U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

NRC Highlights and Insights

**For
RETS-REMP and Groundwater**

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Outline

- Decommissioning Planning Rule
- Cancer Study
- Rad Monitor Failures
- Purpose or Objective of REMP
- NRC Annual Effluent Summary Reports
- Information Notice

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Outline (Continued)

- Temporary Instruction
- ROP Cornerstone Enhancements
- Options Paper on Groundwater
- The List of Leaks and Spills

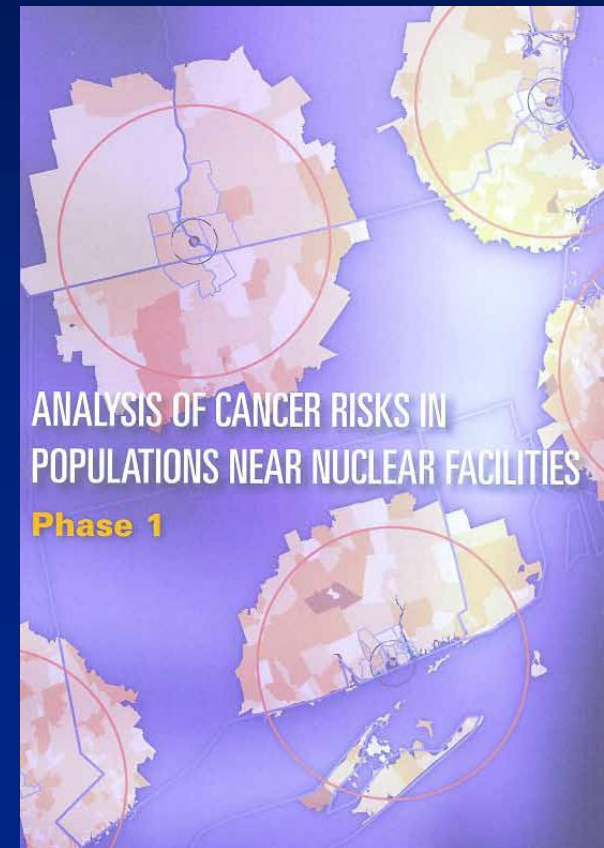


Decommissioning Planning Rule

- Becomes Effective December 2012
- No change in GW requirements
 - ❑ GW Monitoring (explicit, 20.1501)
 - ❑ Records for decommissioning
 - ❑ Minimization of contamination
- Reg Guide
 - Expect by Dec 2012
 - Public Meeting/Webinar July 12, 2012
 - Will have a second comment period

Cancer Study

- National Academy of Science
- Phase I Report, May 2012
- Various Proposals
- Pilot Study (limited number of plants, effluent/Met data)
- Phase II Recommended
- NRC is evaluating a path forward



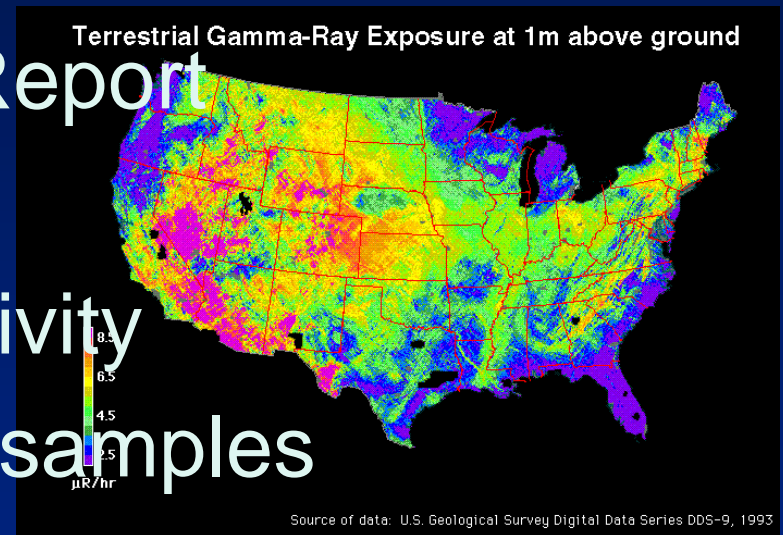


Rad Monitor Failures

- Several rad monitor failures
- Alternate sampling requirements
 - Predetermined backup sampler(s)
 - Duplicate sampling, analysis, evaluation
 - May involve advanced planning
- Some gas sampling requirements are “continuous” so timing of establishing alternate sampler is important.

Purpose or Objective of REMP

- Nuclide(s) may be identified in REMP
- Disposition in Annual Report
 - Plant-related activity
 - Not plant-related activity
- Statistical treatment of samples
- REMP objective is to distinguish background from plant related activity





Annual RETS REMP Reports

- Some ARERRs include Fukushima in effluents
- Some AREORs reflect Fukushima impact
- Annual NRC Effluent Summary Rpts
 - 2009 Report – very soon
 - 2010 Report – Fall 2012
 - 2011 Report – Dec 2012





Information Notice

- IN 2012-05, April 25, 2012
- ADAMS ML120410213
- Discusses abnormal releases
- Sources and causes of spills and leaks
- CSTs, Radwaste Discharge Lines are some sources which repeat
- No response required for IN



Temporary Instruction

- TI 2515/185
- Follow up on groundwater initiative
- Scheduled completion – Dec 2012
- Some inspections completed
- A summary report will be published following completion of TI



ROP Cornerstone Enhancements

- Public meeting held May 30, 2012
- Discussed public safety cornerstone
- Current PI includes leaks and spills
- NRC inspections for leaks and spills
- No significant safety impact from leaks
- NRC is asking for feedback
 - Are enhancements needed?
- Committed and enduring fashion



Options Paper on Groundwater

- SECY-12-0046, March 29, 2012
- Two Options
 1. Current approach
 2. New rulemaking
- Option 1 selected
- NRC staff prepare a notation vote paper on prompt remediation



List Of Leaks And Spills

- On NRC public web page
- Updated June 12, 2012
- One plant added to the list
- Since this list was made public, inquiries about groundwater tritium concentrations have decreased
- If you know of an update that needs to be made, please contact me.



Questions





Acronyms & Abbreviations

- NRC = Nuclear Regulatory Commission
- GW = Groundwater
- Reg Guide = Regulatory Guide
- ARERR = Annual Radioactive Effluent Release Report
- AREOR = Annual Radiological Environmental Operating Report
- REMP = Radiological Environmental Monitoring Program
- CST = Condensate Storage Tank
- IN = Information Notice
- SECY = A technical proposal from NRC Staff to NRC Commissioners
- ML120410213 = Agency-wide Document Access and Management System
Main Library entry number 120410213 found on the NRC Public Web Site.
- ROP = Reactor Oversight Process
- TI = Temporary Instruction
- Rpts = Reports